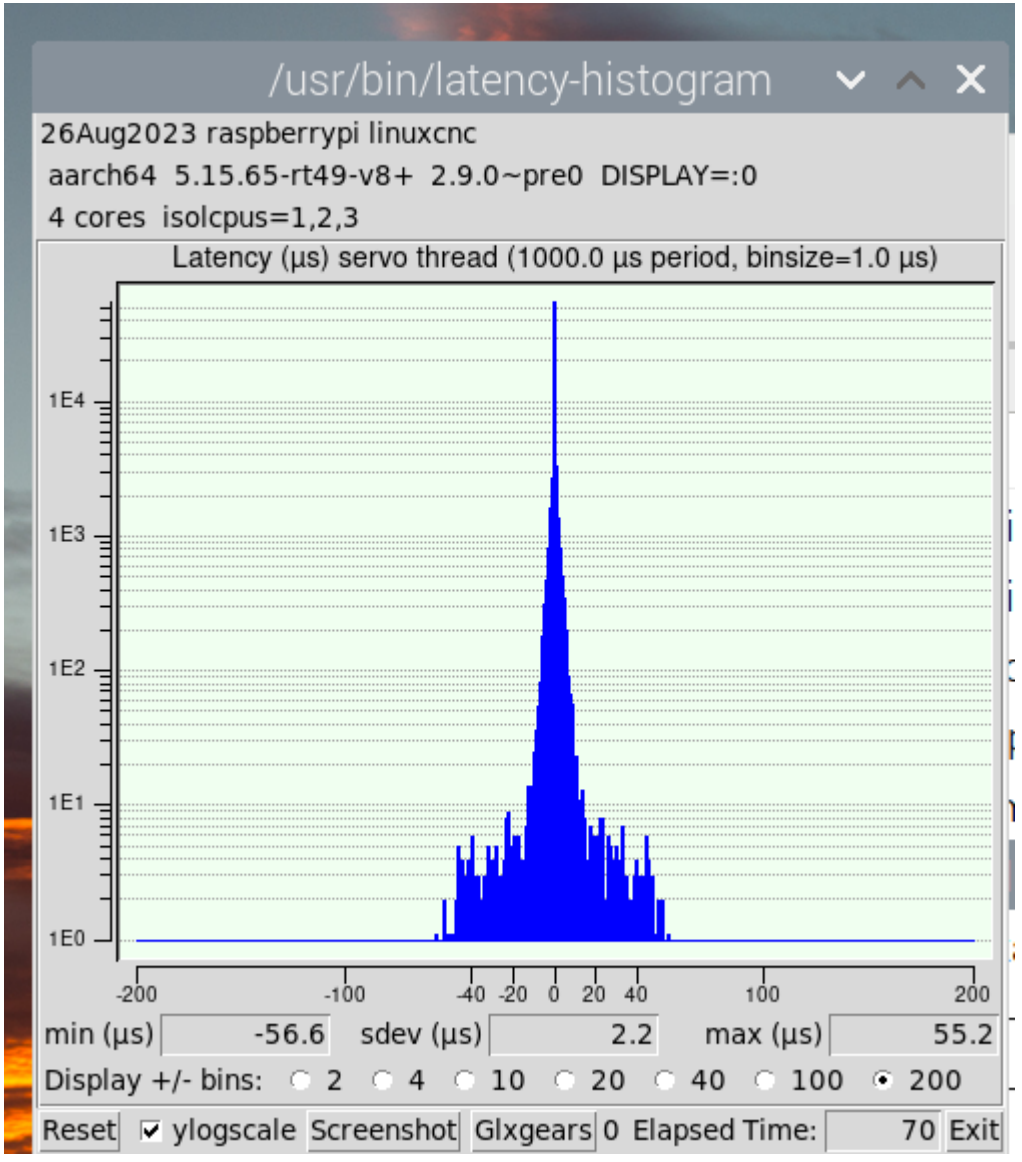
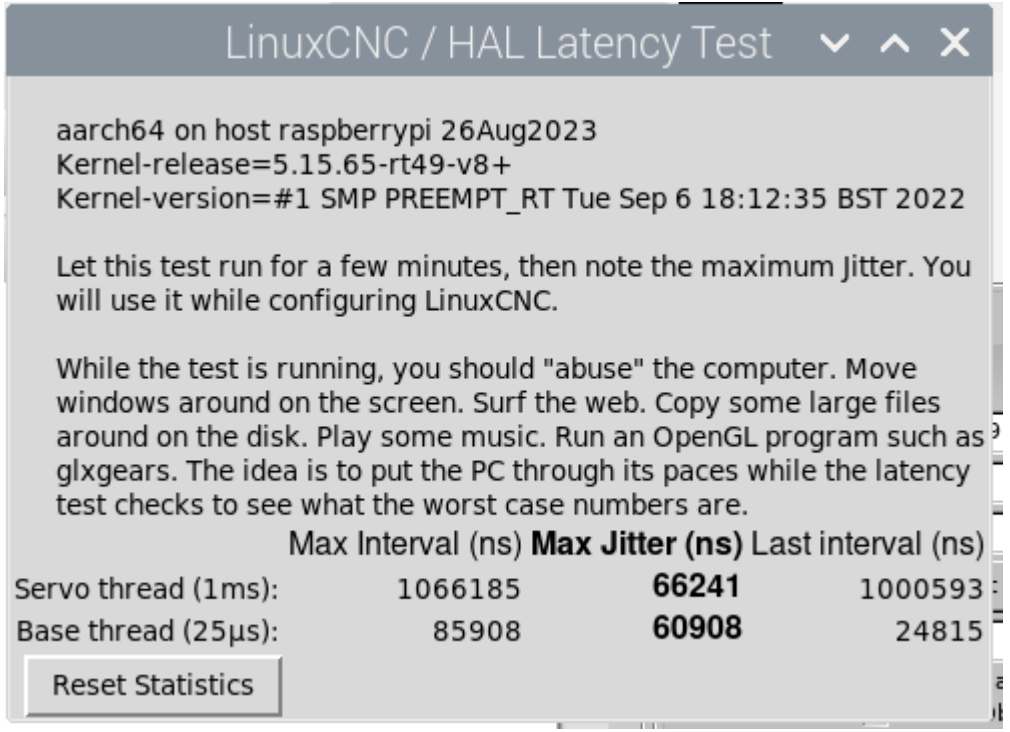

/usr/bin/latency-histogram
26Aug2023 raspberrypi linuxcnc
aarch64 5.15.65-rt49-v8+ 2.9.0~pre0 DISPLAY=:0
4 cores isolcpus=1,2,3
Latency (µs) servo thread (1000.0 µs period, binsize=1.0 µs)
1E4
1E3
1E2
1E1
1E0
-200
-100
-40
-20
0
20
40
100
200
min (µs) -56.6
sdev (µs) 2.2
max (µs) 55.2
Display +/- bins: 2 4 10 20 40 100 200
Reset
ylogscale
Screenshot
Glxgears
0
Elapsed Time: 70
Exit


LinuxCNC / HAL Latency Test
aarch64 on host raspberrypi 26Aug2023
Kernel-release=5.15.65-rt49-v8+
Kernel-version=#1 SMP PREEMPT_RT Tue Sep 6 18:12:35 BST 2022
Let this test run for a few minutes, then note the maximum Jitter. You will use it while configuring LinuxCNC.
While the test is running, you should "abuse" the computer. Move windows around on the screen. Surf the web. Copy some large files around on the disk. Play some music. Run an OpenGL program such as glxgears. The idea is to put the PC through its paces while the latency test checks to see what the worst case numbers are.
Max Interval (ns) Max Jitter (ns) Last interval (ns)
Servo thread (1ms): 1066185 66241 1000593
Base thread (25µs): 85908 60908 24815
Reset Statistics